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1: J Chromatogr A 1998 Dec 11;827(2):337-44

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New approaches to the isolation of DNA by ion-exchange chromatography.

Levison PR, Badger SE, Hathi P, Davies MJ, Bruce IJ, Grimm V.

Whatman International Ltd., Maidstone, Kent, UK.

The performance of different anion-exchange media have been compared for the isolation of plasmid DNA and genomic DNA from bacterial cells and human whole blood. Whatman DEAE-Magarose, based on an agarose bead containing a paramagnetic component, has been compared with prepacked gravity-flow columns containing a derivatised silica matrix. In each case the DNA isolation at various scales of operation was similar both in terms of yield and quality. The magnetic susceptibility of DEAE-Magarose is very high, facilitating the use of this separation technique for rapid flexible batch chromatographic processes, a limitation of the prepacked column techniques.

PMID: 9914660 [PubMed - indexed for MEDLINE]

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